



Cellar Maintenance

at Walla Walla Community College

<https://dept.wwcc.edu/energy>

The Program

The Cellar Maintenance concentration will prepare students for successful entry into this career field. Students will gain knowledge and skills needed to operate, control, maintain, and repair industrial machinery and other equipment, such as: pumps, motors, valves, gates, heaters, chillers, and fans -- used in cleaning systems, conveying systems, wine/food/beverage production machinery, and packaging equipment; read blueprints or technical diagrams; repair or replace wiring, equipment, and instruments safely to NEC standards using hand and power tools and a variety of testing devices.

Career Opportunities

Increased automation, including the use of many computer-controlled machines in factories and processing plants, will raise demand for maintenance workers in order to keep mechanical and electrical systems functioning properly.

Median entry-level wage approximately \$50,000 annually

- Wine Cellar or Food/Beverage Maintenance Mechanic
- Cellar Master
- Facility Maintenance Manager

WWCC Degree Options

AAS degree in Energy Systems

Technology (EST) with concentration in Cellar Maintenance. A Certificate is available after successful completion of the first three quarters of the EST degree. Completion of additional EST concentrations is an option.



For More Information

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Walla Walla Community College... *Shape Your Future!*

Energy Systems Technology Degree

Concentration: Cellar Maintenance

Require Coursework for:

Electrical Systems Technology Core

The actual order and specific coursework may vary depending on student placement, start date, and quarter. Please check with your advisor prior to any substitutions.

The following courses are required for the concentration in:

Cellar Maintenance

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Fall Quarter		
Course #	Course Name	Credits
EST 145	Industrial Safety and Rigging	5
EST 131	Principles of Electricity Theory	5
AMATH 107*	Applied Mathematics (M)	5
EST 260	Introduction to the National Electrical Code	2
Total Credits		17

Fall Quarter		
Course #	Course Name	Credits
EST 106	Process Control Instrumentation and Troubleshooting	5
WTM 215	Basic Fluid Dynamics of Piping Systems	5
EST 263	Heating Systems	5
Total Credits		15

Winter Quarter		
Course #	Course Name	Credits
EST 132	Principles of Electricity AC Application	5
AENG 100	Applied Writing (W + J)	5
EST 100	Refrigeration Basics	5
ENT 112	Blueprint Reading	2
Total Credits		17

Winter Quarter		
Course #	Course Name	Credits
WTM 205	Wastewater Treatment Plant Operations	5
WTM 221	Pump Applications	3
EST 115	Industrial Mechanics	5
EST 202	Bio-Chemical Conversion	5
Min. Credits		18

Spring Quarter		
Course #	Course Name	Credits
EST 133	Introduction to Controls	5
EST 150	Electric Motors and Motor Maintenance	3
IFA 022	AHA Heartsaver First Aid	0.4
ACOM 102	Applied Communications (O/R/L)	5
EST 110	Refrigeration Components	5
Total Credits		18.4
Total Certificate Credits		52.4

Spring Quarter		
Course #	Course Name	Credits
EST 255	Direct Digital Controls	5
WTM 190	Water Quality and Environmental Chemistry	5
EST 225	Commercial Air Conditioning Systems	4
EST 265	Commercial Refrigeration	5
Total Credits (min.)		19
Total Degree Credits (min.)		104.4

***OCSUP/AMATH 105 and OCSUP/AMATH 106 are for Certificate completion only, not for degree completion.**

The following courses can be substituted for identified related instruction courses.

(W) Written Communication:	ENGL 097 or higher
(M) Computation / Mathematics:	AMATH (OCSUP) 107 or higher MATH
(O) Oral Communications:	Any O course
(J) Job Seeking Skills:	Any J course
(R) Human Relations:	Any R course
(L) Leadership:	Any L course